

General Faculty Meeting Minutes 4 p.m.

Tuesday, May 2, 2023

125 Butler-Carlton Hall and zoom

I. Call-to-Order

Chancellor Mo Dehghani called the meeting of the General Faculty to order at 4:03 p.m.

II. Memorial Resolutions

- A. Dr. Randy Moss read a memorial resolution for Dr. Paul Stigall. The resolution was unanimously approved.
- B. Dr. Kate Sheppard read a memorial resolution for Dr. Ray Edwards. The resolution was unanimously approved.

III. Approval of Minutes

Chancellor Dehghani called for approval of the minutes of the November 29, 2022, meeting. The minutes were approved as circulated.

IV. Unfinished Business

There was no unfinished business

V. Special committees

- A. Faculty Senate President Dr. Kate Sheppard presented the names of candidates for election to the University-wide Tenure Committee. Dr. Jagannathan Sarangapani was elected to the committee and Dr. Manashi Nath was elected as the alternate.

VI. New Business

a. Approval of Candidates for Degrees

Motion was made that the names on the previously circulated list of candidates for degrees on May 12 and 13, 2023, be approved, subject to successful completion of any remaining degree requirements. The motion passed.

b. Recognition of Patents awarded

Dr. Kamal Khayat presented a list of faculty who have earned US and International patents in the past year (see slides for details).

c. Recognition of Faculty Awards and Accomplishments

On behalf of Provost Potts, Dr. Kate Drowne presented the list of faculty

receiving major national awards, books published by faculty in the College of Arts, Sciences, and Education, and faculty who received campus awards for excellence, research, teaching, service, and achievement (see slides for details).

d. Chancellor's Report

Chancellor Dehghani began his report with a story about his experience presenting the Chancellor Medal to George Horne, who was one of the first African-American students to enroll at Missouri S&T.

The Chancellor presented a progress report on efforts toward campus North Star goals of achieving Carnegie R1 status, top 100 ranking, and enrollment of 12,000 students.

Major efforts for top 100 ranking are focused on recruiting, first-year retention, and 6-year graduation rates including improving retention. He noted progress is being made on all fronts. The number of applications and accepted students is near record highs and deposits are increasing from the past two years. Retention of first-year students is increasing with a goal of 92% by 2030. Graduation rates remain near 65% with a goal of 85% by 2030.

Chancellor Dehghani provided an update on ongoing and future capital projects. The Innovation Lab will open in November 2023 and groundbreaking for the Welcome Center project took place on April 20, 2023. Groundbreaking for the Protoplex will occur in August 2023.

Chancellor Dehghani reflected on the impressive statistics of graduate salaries, low level of debt, and record career fairs over the past year. The outcomes have led to excellent rankings in-state and nationally.

He also recognized the accomplishments of the campus chapter of the National Society for Black Engineers which earned several awards at the recent annual national meeting, including National Chapter of the Year.

He emphasized the research efforts on campus are trending up with total awards and awards per faculty increasing.

Faculty recruitment and retention has been strong with around 40 searches underway.

The chancellor elaborated on the S&T Leadership Development Program, which is available to faculty and staff. Nearly 100 faculty and staff have already begun participating.

He presented updated numbers for outreach activities, including nearly doubling the summer camp offerings, success of STEM Day, and the new STEM Mobile.

He also reported on progress toward improving the budget situation with stronger support from the state and introduced multiple new academic programs being developed in alignment with current strategies.

The chancellor elaborated on the campus desire to expand life sciences research on campus, particularly at the interface with physical sciences and engineering disciplines. The efforts will include development of a new Bioplex facility. The goal is to increase the percentage of federal funding the campus receives from NIH programs. He also revisited an overview of potential academic options to develop new approaches to medical education partnering with MU Medical School.

The chancellor concluded the presentation with an update on the status of ongoing capital projects with renderings of the new buildings and campus features currently underway.

(See slides for details on the above items.)

e. Faculty Senate President's Reports

Because the most recent Faculty Senate meeting was held less than a week earlier, Dr. Sheppard had no additional reports to present. She provided updates on the upcoming meeting with the Intercampus Faculty Council to talk about shared governance and the NTT promotion process. She also summarized Faculty Senate accomplishments over the past year, most significantly the passage of new Faculty Senate bylaws.

VII. Announcements – None

VIII. Adjournment

The meeting was adjourned at 5:08 pm.

Respectfully submitted,

Dave Westenberg, Secretary

## **Memorial Resolution**

### **Dr. Paul David Stigall**

Dr. Paul Stigall was a gentleman, a scholar, a valued mentor, and a good friend to the students, faculty, and staff of the University of Missouri-Rolla (UMR) and later Missouri University of Science and Technology (S&T). We were fortunate he chose to spend a large portion of his career with us, and we mourn his passing.

Dr. Paul David Stigall, Professor Emeritus of Electrical and Computer Engineering, passed away Wednesday, April 13th, 2022, at the age of 82. He was born on February 1st, 1940, in Richmond, MO, to the late Allen and Thelma (Rinkenbaugh) Stigall. On June 1st, 1968, he married Mary Plunkett in Laramie, WY. Mary preceded him in death in 2021 after 53 years of marriage. Paul earned his B.S.E.E. degree from UMR in 1962, followed by his M.S.E.E. degree in 1965 and his Ph.D. in Electrical Engineering in 1968, both from the University of Wyoming. He and Mary moved to St. Louis, MO, where Paul worked as a Group Engineer for McDonnell Douglas until he accepted a position as Assistant Professor of Electrical Engineering and Computer Science at UMR starting on August 24, 1970, where he remained until his retirement in 2002, being promoted to Associate Professor of Electrical Engineering and Computer Science in 1976 and to Professor of Electrical Engineering and Computer Science in 1980. Paul held a joint appointment with the Electrical Engineering Department and the Computer Science Department through August 1995. On September 1, 1995, Paul became a full-time Professor of Electrical Engineering. With the establishment of the Computer Engineering degree program at UMR, he became a Professor of Electrical and Computer Engineering in 1998, a position he held until his retirement.

Dr. Stigall had the heart of a teacher and was a beloved professor in the Department of Electrical and Computer Engineering where he taught at least 34 different courses over the years. Paul enjoyed teaching so much that he drove to St. Louis and back one evening each week for many semesters to teach graduate-level courses to working engineers at the Graduate Engineering Center (later the Engineering Education Center) on the UMSL campus. He served as Interim Chairman of the Electrical Engineering Department in 1985-86. He greatly enjoyed his work as Assistant Chair for Graduate Studies from 1996 until his retirement in 2002. During his career, he was major advisor for at least 64 M.S. and 8 Ph.D. students, some in Computer Science, some in Electrical Engineering, and some in Computer Engineering. Paul also enjoyed mentoring younger faculty members and made a significant difference in their careers.

Dr. Stigall's service activities to the university were significant. During his career, within the E.E. Department, he served on at least 12 committees and chaired at least one of those. He also served as coordinator of the Computer Engineering area and served as an advisor to Eta Kappa Nu, the electrical and computer engineering honor society. Within the Computer Science Department, he served as the minor advisor to E.E. students and as the Computer Organization Area Coordinator. Campus-wide and university-wide, he served on at least 37 committees, of which he chaired at least six. He also served as Vice-Chairman of the General Faculty and Parliamentarian of the General Faculty. He served on the Academic Council for six years, serving as Parliamentarian, Chairman-elect, and Chairman during that time.

Dr. Stigall was a registered professional engineer in Missouri, and, as such, served as Membership Chairman and on the Board of Directors of the Rolla Chapter of the Missouri Society of Professional Engineers. He was also a member of the National Society of Professional Engineers and a senior member of IEEE. Paul served on the Rolla Chapter Steering Committee of Sigma Xi, the scientific research honor society, for three years. Additionally, he held various positions with the Missouri Enterprise Business Assistance Center, including Secretary, a member of the Executive Committee, and a member of the Board of Directors. He was a member of Eta Kappa Nu, Sigma Xi, Tau Beta Pi, and Phi Kappa Phi, as well as an honorary member of Phi Eta Sigma.

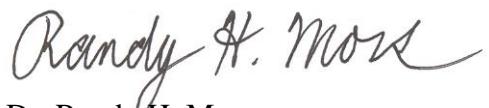
Dr. Stigall was honored by *Who's Who in Computer Education and Research* and *Who's Who in Missouri Education*. He published at least 50 papers and had one patent disclosure. Paul served in various functions, such as Session Chairman, for a number of symposia and conferences. He was project director or co-investigator for at least 25 research projects and 9 funded extension and service activities during his career. He received the Faculty Excellence Award from UMR, as well as the Engineering Award from the St. Louis Section of IEEE. He was inducted into the UMR Academy of Electrical Engineering in 1992 and served until his death.

Paul and Mary were long-time members of the First United Methodist Church where Paul served on various committees and boards, including serving as President of the Administrative Board. He served on the Wesley Foundation Board for 12 years. Paul served on the Rolla Planning and Zoning Commission and was its chair for a number of years. He was a member of the Rolla Kiwanis Club since 1971, where he held various positions including President and Board Member. As President of the Rolla Kiwanis Club, Paul was instrumental in establishing the Kyle Center, a center for semi-independent living for the developmentally disabled in Rolla. He was also instrumental (via Kiwanis) in establishing the Larry May Children's Park in Rolla. In addition, Paul volunteered with the AARP program to assist people in filling out their income taxes. In his free time, Paul was an avid gardener. He filled his yard with beautiful flowers, flowering bushes, and trees. He won Yard of the Month on several occasions. His back yard was full of seasonal vegetables that were enjoyed by both family and friends.

Paul was a dedicated husband, father, son, brother, uncle, and friend. He thought of others before himself, knew the necessity of being kind and the lost art of not complaining. He was quietly persuasive. This remarkable man will be greatly missed by his surviving family which includes his daughters Colleen (and husband Paul) Schilling of Coralville, IA and Claire Stigall Sheppard of Atlanta, GA, and his brothers Richard Stigall of Richmond, MO and Gary Stigall of Yuma, AZ. Paul has four grandchildren, Nicole Brooke Schilling, Michael Paul Schilling, and Laura Claire Schilling all of Iowa and Amelia Colleen Sheppard of Atlanta, GA.

It is requested that this memorial resolution be incorporated into the official minutes of the Missouri University of Science and Technology General Faculty Meeting of May 2, 2023, and that copies be sent to his family.

Submitted by,

A handwritten signature in black ink that reads "Randy H. Moss". The signature is fluid and cursive, with "Randy" on the first line and "H. Moss" on the second line.

Dr. Randy H. Moss  
Professor Emeritus of Electrical and Computer Engineering

D. Ray Edwards, of Rolla, Missouri, passed away Sunday, March 19, 2023 at the age of 84.

He was born on December 22, 1938 in Pyletown, MO to the late Paul Edwards and Clara Edith (McClard) Edwards. On December 27, 1959, he married Anne Maureen (Bennett) Edwards. From his one-room schoolhouse elementary school beginnings to his PhD from Massachusetts Institute of Technology, Ray Edwards lived his passion for education. He returned to his undergrad alma mater in 1963 to be the director of the nuclear reactor. In his time at S&T, he developed the Nuclear Engineering program, where he taught for 39 years, including 17 as Department Chair. He retired in September of 2002.

Dr. Edwards' heart was really in teaching undergraduates and encouraging and mentoring graduate students more than doing research. He developed and taught the first course in reactor physics, Physics 374. Later he expanded the course offerings to become a nuclear engineering degree program as part of the metallurgical engineering department. He was an early adopter and proponent of reactor physics, specifically of the computer modeling of neutron transport. In those days, computer programming depended on vacuum tubing and a *lot* of punch cards. In the 1980's he won a grant for the then-independent department that paid for the installation of a powerful (for the day) AT&T "mini-mainframe" to support the computational modeling he needed to support his department and his students. His students were exposed to this early incorporation of computers in engineering, meaning Dr. Edwards trained generations of students who went out into the field as top-tier recruits with ground-breaking knowledge of the newest technologies and methods.

Dr. Edwards was instrumental in helping to impact public opinion on nuclear power in the state of Missouri. His thoughtful and respectful approach in refuting opposition to safe and clean nuclear power directly resulted in the construction and operation of the first commercial electricity producing reactor in Missouri, Callaway No.1. This reactor has lowered electric costs for Missouri citizens who have benefited ever since.

Dr. Edwards worked closely with Alva Elliott, the reactor facility supervisor/manager, to develop operator training programs to support the nuclear utilities as well as expanding the capabilities of the S&T reactor through the following changes. In 1963, in his first year as director, Dr. Edwards procured and installed a pneumatic irradiation system. Later, he procured and installed a neutron generator. In 1966, he installed a Fermi chopper. All of this led to the successful uprating of the reactor from 10kW to 200kW in 1967. More than that, Dr. Edwards greatly expanded the useable space in the facility by acquiring engineering offices, a front office, and most importantly—lab space.

Ray will be greatly missed by his surviving family which includes: his beloved wife of 63 years, Anne Edwards of Rolla, MO; three sons, Doyle Edwards and wife, Micheline of Rolla, MO, Kevin Edwards and wife, Suzanna of Rolla, MO, and Shawn Edwards and wife, Rebecca of Kirkwood, MO; a daughter, Clara Dey and husband, Eric of Austin, TX, twelve grandchildren, Devon, Camie, Tyler, Lara, Doyle Kelan, Katherine, Beket, Victoria, Sabrina, Olivia, Sullivan and James; and fifteen great grandchildren, Luke, Liam, Leia, Ephraim, Caraline, Silas Ray, Kadyn, Miriam, Oliver, Benson, Remy Anne, Ewan, Madison, Kamry and Alena.

Professor Ray Edwards will live on in the hearts and the minds of his students, family, friends and colleagues at MSM/UMR/Missouri S&T. We request that this Memorial Resolution be incorporated into the official minutes of the Missouri S&T Faculty Meeting of May 2, 2023, and a copy be presented to his children.